

DEPARTMENT OF ENGLISH & APPLIED LINGUISTICS, UST, BANNU

BS ENGLISH (LANGUAGE AND LITERATURE)-SEMESTER-III

Course Title: Applications of Information and Communication Technologies
Credit Hours: 03
Course Code: GEC-532

COURSE DESCRIPTION:

This course is designed to provide students with an exploration of the practical applications of Information and Communication Technologies (ICT) and Software tools in various domains. Students will gain hands-on experience with a range of software applications, learning how to leverage ICT to solve daily life problems, enhance productivity and innovate in different fields. Through individual and interactive exercise and discussions, students will develop proficiency in utilizing software for communication, creativity and more.

COURSE OBJECTIVES:

By the end of this course, students will be able to:

- Explain the fundamental concepts, components and scope of Information and Communication Technologies (ICT).
- Identify uses of various ICT platforms and tools for different purposes.
- Apply ICT platforms and tools for different purposes to address basic needs in different domains of daily, academic and professional life.
- Understand the ethical and legal considerations in use of ICT platforms and tools.

COURSE CONTENTS:

1. Introduction to Information and Communication Technologies:

- Components of Information and Communication Technologies (basics of hardware, software, ICT platforms, networks, local and cloud data storage etc).
- Scope of Information Technologies (use of ICT in education, business, governance, healthcare, digital media and entertainment etc).
- Emerging technologies and future trends.

2. Basic ICT productivity tools:

- Effective use of popular search engines (e.g, Google, Bing, etc) to explore World Wide Web.
- Formal communication tools and etiquettes (Gmail, Microsoft Outlook, etc).
- Microsoft Office Suites (Word, Excel, PowerPoint).
- Google Workspace (Google Doc, Sheets, Slides).
- Dropbox (Cloud storage and file sharing), Google Drive (Cloud storage with Google Docs integration) and Microsoft OneDrive (Cloud storage with Microsoft Office integration).

- Evernote (Note-taking and organization applications) and OneNote (Microsoft's digital notebook for capturing and organization ideas).
- Videos conferencing (Google Meet, Microsoft Teams, Zoom, etc)
- Social media applications (LinkedIn, Facebook, Instagram etc).

3. ICT in education:

- Working with learning management systems (Moodle, Canvas, Google Classrooms etc).
- Sources of online education courses (Coursera, edX, Udemy, Khan Academy etc)
- Interactive multimedia and virtual classrooms.

4. ICT in Health and Well-being:

- Health and fitness tracking devices and applications (Google Fit, Samsung Health, Apple Health, Xiaomi Mi Band, Runkeeper etc).
- Telemedicine and online health consultations (OLADOC, Sehat Kahani, Marham etc).

5. ICT in personal finance and shopping:

- Online banking and financial management tools, (JazzCash, Easypaisa, Zong PayMax, ILINK and MNET, Keenu Wallet etc).
- E-economics platforms (Daraz pk, Telemart, Shophive etc).

6. Digital citizenship and online etiquette:

- Digital identify and online reputation.
- Netiquette and respectful online communication.
- Cyberbullying and online harassment.

7. Ethical considerations in use of ICT platforms and tools:

- Intellectual property and copyright issues.
- Ensuring originality in contents creation by avoiding plagiarism and unauthorized use of information sources.
- Content accuracy and integrity (ensuring that the content shared through ICT platforms is free from misinformation, fake news and manipulation).

PRACTICAL REQUIREMENTS

As part of the overall learning requirements, the course will include:

1. Guided tutorials and exercises to ensure that students are proficient in commonly used software applications such as word processing software (e.g, Microsoft Word), presentation software (e.g Microsoft PowerPoint), spreadsheet software (e.g, Microsoft Excel) among such other tools. Students may be assigned practical tasks that require them to create documents, presentation and spreadsheets etc.
2. Assigning of tasks that involve creating, managing and organizing files and folders on both local and cloud storage systems. Students will practice file naming

conventions, creating directories and using cloud storage solutions (e.g, Google Drive, OneDrive).

3. The use of online learning management systems (LMS) where students can access course materials, submit assignments, participate in discussion forums, and take quizzes or tests. This will provide students with the practical experience with online platforms commonly used in education and the workplace.

RECOMMENDED READINGS:

- “Discovering Computers” by Vermaat, Shaffer, and Freund.
- “GO! With Microsoft Office” Series by Gaskin, Vargas and McLellan.
- “Exploring Microsoft Office” Series by Grauer and Poatsy.
- “Computing Essentials” by Morley and Parker.
- “Technology in Action” by Evans, Martin, and Poatsy.